

Fatty Acid Nutrition in Early Life. Supported by a grant from the Mathile Institute for the Advancement of Human Nutrition

Introduction

- 1 *Kathryn G. Dewey and Gregory A. Reinhart*

Review Articles

- 2 Dietary lipids from an evolutionary perspective: sources, structures and functions
J. Bruce German
- 17 Conversion of linoleic acid and alpha-linolenic acid to long-chain polyunsaturated fatty acids (LCPUFAs), with a focus on pregnancy, lactation and the first 2 years of life
Robert A. Gibson, Bev Muhlhausler and Maria Makrides
- 27 Genetic variation in polyunsaturated fatty acid metabolism and its potential relevance for human development and health
Claudia Glaser, Eva Lattka, Peter Rzehak, Colin Steer and Berthold Koletzko
- 41 Maternal fatty acid status during pregnancy and lactation and relation to newborn and infant status
Lotte Lauritzen and Susan E. Carlson
- 59 Animal studies of the functional consequences of suboptimal polyunsaturated fatty acid status during pregnancy, lactation and early post-natal life
J. Thomas Brenna
- 80 Impact of fatty acid status on growth and neurobehavioural development in humans
Maria Makrides, Carmel T. Collins and Robert A. Gibson
- 89 Impact of fatty acid status on immune function of children in low-income countries
Andrew M. Prentice and Liandr  van der Merwe
- 99 Fatty acid status and maternal mental health
Usha Ramakrishnan
- 112 Metabolic programming of long-term outcomes due to fatty acid nutrition in early life
Sheila M. Innis
- 124 Food sources and intake of n-6 and n-3 fatty acids in low-income countries with emphasis on infants, young children (6–24 months), and pregnant and lactating women
Kim F. Michaelsen, Kathryn G. Dewey, Ana B. Perez-Exposito, Mulia Nurhasan, Lotte Lauritzen and Nanna Roos
- 141 Fatty acid status in early life in low-income countries – overview of the situation, policy and research priorities
Andr  Briend, Kathryn G. Dewey and Gregory A. Reinhart